Appendix C

```
'**** RINGLIGHT POWER SUPPLY FOR BOTH AC AND DC ****** RINGBAT.BAS
'BASED ON 16 MHZ 16F877, FOR REMOTE, LOCAL AND DMX INPUT
```
```
' PORTA.0 - ANALOG INTERNAL POT
' PORTA.1 - VOLTAGE AT BATTERY
' PORTA.2 - ANALOG LOAD CHANNEL #
' PORTA.3 - ANALOG LOAD CHANNEL #
' PORTA.4 - DIGITAL IN ON/OFF SWITCH HI=ON
' PORTA.5 - ANALOG LOAD CHANNEL #

' PORTB.0 - SERIAL I/O (WATCHDOG)
' PORTB.1 - LED INDICATING LOCAL CONTROL
' PORTB.2 - N/C
' PORTB.3 - OUTPUT ENABLE CHANNEL #
' PORTB.4 - OUTPUT ENABLE CHANNEL #
' PORTB.5 - OUTPUT ENABLE CHANNEL #
' PORTB.6 - PROGRAM
' PORTB.7 - PROGRAM

' PORTC.0 - LED INDICATING REMOTE CONTROL
' PORTC.1 - PNP GATE CONTROL
' PORTC.2 - NPN GATE CONTROL
' PORTC.3 - LED INDICATING DMX CONTROL
' PORTC.4 - SCAN IN (DIODE)
' PORTC.5 - SCAN IN (DIODE)
' PORTC.6 - SCAN OUT TOGGLE SWITCHES
' PORTC.7 - DMX IN

' PORTD.0 - RTC RESET
' PORTD.1 - IC2
' PORTD.2 - IC2
' PORTD.3 - SCAN IN (DIODE)
' PORTD.4 - SCAN IN (4TH BIT NO DIODE)
' PORTD.5 - SCAN OUT DMX ADDRESS
' PORTD.6 - SCAN OUT REMOTE
' PORTD.7 - NC

' PORTE.0 - VOLTAGE AT LED+
' PORTE.1 - EXTERNAL POT
' PORTE.2 - TRIM POT


'***********************************************************
'*                                                         *
'*                     ENVIRONMENT                        ,*
'*                                                         *
'***********************************************************


        DEFINE CHAR_PACING 1000


'***********************************************************
'*                                                         *
'*                      VARIABLES                          *
'*                                                         *
'***********************************************************

N       VAR     BYTE    BANK0
X       VAR     BYTE
Y       VAR     BYTE
Z       VAR     BYTE

X2      VAR     WORD    BANK0
Y2      VAR     WORD

MISCF   VAR     BYTE    BANK0


LCNT    VAR     BYTE
```